

ABSTRACT OF THE DISCLOSURE

A dielectric material composition including a metal oxide represented by a general formula, $Y_{1-x}M^1_xMn_{1-y}M^2_yO_m$. M^1 is Y, Ho, Er, Yb, Tm, or Lu. M^2 is Ti, Zr, V, Mo, Mg, Cu, or Zn. X is a number of 0 to 1. Y is a number of 0 to 1. The metal oxide is of high dielectric constant and has the properties of ferroelectricity, piezoelectricity, and pyroelectricity.